

Pinqing Kan

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Profile

Aspiring data scientist with engineering and signal processing background. Passionate about pattern extraction and problem solving through data analysis and algorithm design.

Experience

INDEPENDENT PROJECTS; SYRACUSE, NY

2017 – PRESENT

- Scraped ~3GB data of the iOS applications (app specifics, user reviews, etc.) from iTunes websites
- Explored the app development trends of different categories, the user expectation changes (based on reviews), and the user preference across categories (still in progress)

RESEARCH ASSISTANT, SYRACUSE UNIVERSITY; SYRACUSE, NY

2011 – 2017

- Post-processed experimental (~65GB) and numerical (~250GB) data on jet flows in Matlab / Python / Fortran: de-noising, de-trending, filtering faulty data, etc.
- By selecting / constructing representative signals, using time-frequency and statistical techniques, devised algorithms to extract events of interest with over 90% accuracy (processing time ≤ 5 min)
- Obtained statistics on events and introduced new visualizations for structure evolution
- Side Projects: algorithm design for automatic wave tracking; reduced-order modeling of jet flows
- Tutored 3 students and collaborated with researchers from several institutes

MANAGER ASSISTANT, COATES CHIA INT. TRD. LTD.; BEIJING, CHINA

2010 – 2011

- Led a team of four in developing website: <http://www.coateschia.com.cn>
- Assisted the manager in product pricing and implementing marketing strategies

Skills

Proficient: Time-frequency signal processing (wavelet); Statistical signal processing
 Matlab; Python 3

Fluent: Principal component analysis; Classification; Regression; Clustering
 Plotly; Bokeh; C; UNIX system; HTML; CSS

Familiar: C++; Fortran 95; Django; SQL; PySpark

Education

Syracuse University, Syracuse, NY
Tianjin University, Tianjin, China

PhD, May 2017
B.S., July 2010

Awards and Achievements

Graduate Fellowship (2011): only 1~2 awarded every year in College of Engineering at SU
University Scholarship (2007): only 1 awarded every year in Engineering College at TU
Publication: 1 book chapter and 1 journal article
Presentation: 13 conference presentations; 1 workshop presentation; 6 poster presentations